

# Sitecore CMS 7.2 Installation Guide

Installation guide for administrators and developers



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# **Chapter 1**

# Introduction

This document describes how to install Sitecore CMS.

The document contains the following chapters:

- Chapter 1 Introduction The chapter contains introduction to the Sitecore CMS 7.2 installation process
- Chapter 2 Sitecore CMS 7.2 Requirements Sitecore CMS 7.2 installation requirements
- Chapter 3 Using the Sitecore Installation Program The chapter describes how to use the Sitecore Installation Program
- Chapter 4 Installing from the .ZIP File How to install Sitecore CMS 7.2 from the .ZIP file
- Chapter 5 Limitations and Specific Requirements The information regarding limitations and requirements of Sitecore CMS 7.2
- Chapter 6 Post-Installation Steps The chapter describes some necessary actions after installation
- Chapter 7 Appendix
   The chapter contains the supplementary instructions that help to configure the
   environment



# 1.1 Getting Started

For small implementations including developer workstations and testing environments, Sitecore CMS and the database server can be installed on a single computer. For larger implementations, the database server is typically separated from the application server. The content authoring environment for business users is also frequently separated from the content delivery environment that is accessed by internet users.

Sitecore can be broken down into three logical components regardless of whether a setup .exe file or a .zip file is used to install a new instance of Sitecore and regardless of the database technology that is used.

The three logical components are:

- IIS document root ("the Web site").
- Supporting file system for logs and data.
- Supporting relational databases. The databases are often stored under the supporting file system.

Configuration is managed by files such as web.config and the files under the /App Config folder.

For information about hardening security when Sitecore is installed, see the *Security Hardening Guide*. The Sitecore CMS can be distributed in two ways:

- As an executable installation program .exe file(s).
- As an archived copy of a Sitecore CMS solution in a file system . zip file.

The installation program should be used whenever possible. It contains a wizard, which guides you through the installation process.

Using the installation program requires considerably less manual effort than configuring the *zip* file.

You can create an archive of your Sitecore CMS solution to move it from one computer to another.

Please contact <u>http://support.sitecore.net/helpdesk/</u> for assistance or to report any discrepancies between this document and the product.



# **1.2** Preparing to Install Sitecore CMS 7.2

There are several ways to install Sitecore. They depend on your choice of database technologies, the server administrator's preferences, and the environment you want to run — development, testing, content authoring, content delivery, and so on.

Before installing Sitecore CMS, you should decide on the:

- Project name and acronym, for instance *ProjectName*.
- Acronym/prefix, for instance PN.
- Target installation file system root, for instance C:\inetpub\wwwroot\ProjectName.
- Database technology:
  - SQL Server 2008 R2 SP1, SQL Server 2012 or SQL Express.
  - Oracle Database 11g R2 (11.2).
- Database location locally or on a remote server.
- Appropriate Sitecore CMS license.
- Hardware.
- Administrative access to computers and databases.
- Access to Sitecore Developer Network (<u>http://sdn.sitecore.net</u>) contact a local sales office or partner manager.
- IIS configuration host headers, and so on.



# **Chapter 2**

# Sitecore CMS 7.2 Requirements

This chapter describes the prerequisites, hardware, and software requirements for Sitecore CMS 7.2 host and client computers. In this document, the term "server" refers to a Windows OS Web server and the term "host" refers to an installation of Sitecore CMS on either a server or a workstation.

This chapter contains the following sections:

- Sitecore Hosting Environment Requirements
- Sitecore Client Requirements



# 2.1 Sitecore Hosting Environment Requirements

Sitecore CMS 7.2 has some specific requirements towards the operating system, Web Server, .NET, Visual Studio and database server.

# 2.1.1 **IIS Requirements**

Sitecore CMS can be hosted on the following IIS versions running on supported operating systems:

- IIS 7.0
- IIS 7.5
- IIS 8.0
- IIS 8.5

You must use the version of IIS that is supported by your operating system. For more information about IIS and operating systems, see Microsoft's documentation.

Sitecore CMS does not support any other ASP.NET web servers such as Visual Studio Cassini, IIS Express, or Mono Web Server.

#### Important

Sitecore neither supports nor permits multiple IIS website definitions pointing to the same Sitecore web root.

# 2.1.2 **Operating System Requirements**

Sitecore CMS 7.2 is compatible only with those Client and Server Operating Systems, which support .NET Framework 4.5. Sitecore CMS can be hosted on the following Microsoft operating systems:

- Windows Server 2008 (32/64-bit) SP2+
- Windows Server 2008 R2 (32/64-bit) SP1+
- Windows Server 2012 (32/64-bit)
- Windows Server 2012 R2 (32/64-bit)
- Windows Vista (32/64-bit) SP2+
- Windows 7 (32/64-bit, Home Premium and higher) SP1+
- Windows 8 (32/64-bit)
- Windows 8.1 (32/64-bit)

#### Important

Visit Windows Update — <u>http://windowsupdate.microsoft.com</u> — and install all the appropriate service packs and security updates on all of your Sitecore CMS host and client computers.

## Windows 7

Sitecore CMS supports the following editions of the Windows 7 operating system:

- Ultimate
- Professional



Enterprise

It is possible to run Sitecore on Windows 7 Home Premium if you install IIS 7.5 on it. For more information about installing IIS 7.5 on Windows 7 Home Premium, see the following article:

• Installing IIS 7.5 on Windows 7 Home Premium, Home Basic, or Home Starter.

For more information about the feature limitations in the various Windows 7 editions, see the following article:

Available Web Server (IIS) Role Services in IIS 7.5

## Windows Vista

Sitecore CMS supports the following editions of the Windows Vista operating system:

- Business
- Ultimate
- Enterprise

The other editions of Vista, such as Home Basic, have IIS server limitations. For more information about IIS configuration on different editions of Windows Vista, see the following articles:

- <u>Why you need Vista Business / Ultimate for IIS 7?</u>
- IIS 7.0 Features and Vista Editions

# 2.1.3 .NET Framework Requirements

Sitecore CMS 7 requires .NET Framework 4.5.

Any available updates to the .NET Framework should be applied to every Sitecore host.

# 2.1.4 Visual Studio Requirements

Sitecore CMS 7 requires Visual Studio 2012 or later.

The Sitecore code is compiled in .NET 4.5 and you must therefore use Visual Studio 2012 to compile your projects.

# 2.1.5 Database Requirements

Sitecore CMS supports the following database servers:

- MS SQL Server 2008 R2 SP1.
- MS SQL Server 2012.
- MS SQL Server Express.
- Oracle Database 11g R2 (11.2).

#### Note

Sitecore recommends running the database on a separate server from the web server.



#### Note

You should have the Oracle specific license keys in your license file to run Sitecore with the Oracle database: Sitecore.Oracle and Sitecore.FireDB.

# 2.1.6 Hardware Requirements for a Server Running a Single Sitecore Installation

We recommend the following hardware requirements:

Minimum configuration requirement:

- 4 core processor (4 threads)
- 8GB of RAM

Recommended configuration:

- 4 core processor (8 threads)
- 16GB of RAM

#### Note

The recommended hardware requirements are for running the software on a single computer. For more information about running Sitecore on different kinds of hardware, consult your Sitecore partner or Technical Sales Representative.

# 2.1.7 Antivirus Software Considerations

Some antivirus software can have a detrimental effect on the performance of ASP.NET applications including Sitecore. We therefore recommend that you use only antivirus scanners that are certified for the operating system that you use. For more information about the certified products, see the Windows Server Catalog website.

To ensure optimal performance, exclude the following folders from scanning by your antivirus software:

- The site root folder.
- The data folder that is defined in the <sc.variable name="dataFolder" ... /> setting in the web.config file.
- The folder that contains the actual Sitecore database files.
- The C:\Windows\Temp or {app pool user profile}\Temp folder.



# 2.2 Sitecore Client Requirements

This chapter describes requirements towards the software and hardware.

# 2.2.1 Software Requirements

## Browser

Sitecore CMS clients are browser-based user interfaces. Sitecore clients can run on the following browsers:

- Microsoft Internet Explorer 11
- Microsoft Internet Explorer 10
- Microsoft Internet Explorer 9
- Mozilla Firefox 17+ (latest supported version by Mozilla)
- Google Chrome 25+ (current supported version by Chrome)
- Apple Safari 6 for Mac OS (Windows is not supported by Apple)

#### Note

Sitecore CMS 7.2 supports all current stable versions of these browsers unless stated otherwise.

#### Note

Sitecore CMS 7.2 does not support the Compatibility view in IE 9, IE 10 and IE 11.

For more information about configuring a browser, see the manual Browser Configuration Reference.

## Silverlight

If you want to install Sitecore DMS, you must also install Microsoft Silverlight 4 or later.

# 2.2.2 Hardware Requirements

- Processor: Intel Pentium 4 2GHz or faster processor.
- RAM: 512 MB minimum. 1GB recommended.
- TCP/IP connection at 512Kbps or faster to the Sitecore CMS host.
- 1024x768 or greater screen resolution required for advanced operations.

You do not need to install any additional software on the Sitecore CMS clients that access Sitecore CMS servers.



# Chapter 3

# **Using the Sitecore Installation Program**

This chapter describes how to use the installation program to install Sitecore CMS.

You can download the Sitecore installation program from the <u>Sitecore CMS Downloads</u> page.

This chapter contains the following sections:

- Windows Vista / Windows 7 Pre-installation Steps
- Installation Process
- Uninstalling Sitecore
- Troubleshooting



# 3.1 Windows Vista / Windows 7 Pre-installation Steps

Before you can install Sitecore on Windows Vista or Windows 7, you must enable the *Detect application installations and prompt for elevation* UAC (User Account Control) configuration security policy.

# 3.1.1 The UAC (User Account Control) Configuration

To run the installation program on Windows Vista or Windows 7, the UAC (User Account Control) configuration security policy *Detect application installations and prompt for elevation* must be enabled (this setting is enabled by default).

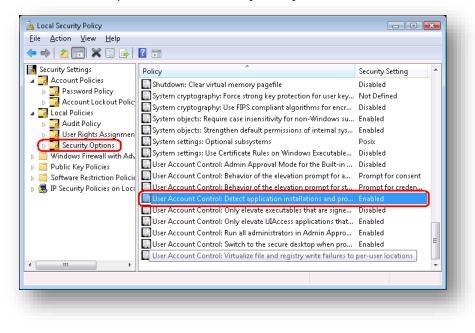
To check if this setting has been changed on your machine:

- 1. Log in as an administrator.
- 2. Press WIN + R to open the **Run** window.
- 3. In the **Run** window, enter secpol.msc and press ENTER.

The UAC (User Account Control) requests your permission to continue.



4. Click Continue to open the Local Security Policy window.



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- 5. In the left-hand pane, expand the Local Policies node and select Security Options.
- 6. In the right-hand pane, scroll to the bottom of the list of policies.
- 7. Verify that the User Account Control: Detect application installations and prompt for elevation policy is set to Enabled.



# 3.2 Installation Process

To start the installation process, you must launch the **Sitecore 7.2. rev.XXXXXX.exe** application, which starts the installation wizard. This section describes the steps in the wizard.

#### Note

The Sitecore CMS configuration files are automatically modified according to the settings provided in the wizard.

#### Welcome screen



Review the welcome screen and click Next.

## Upgrade or New Instance

| Do you wa<br>instance? | ant to create a new instance of Sitecore or remove an existing   |
|------------------------|--|
|                        | New Instance     Create a new instance of Sitecore.     Existing Instance     Remove an existing instance of Sitecore. To install another instance,     you must run the installation wizard again.     Sitecore Instance: |
|                        | < Back Next > Cancel   |

Select the **New Instance** option to *install a new instance*.

Select the **Existing Instance** option to *remove an existing instance of Sitecore CMS*. This option is only active when an instance of Sitecore already exists on the machine.

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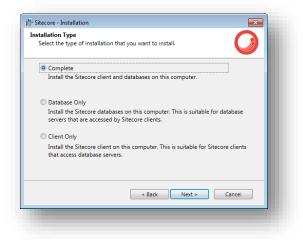


# License Agreement



Read the license agreement and select the appropriate option. Click Next.

# What to Install?



Select the type of installation that you want:

- Complete (client and database). This mode installs both the Sitecore databases and the Sitecore client on the local computer.
- Database only. This mode only installs the Sitecore databases.
- Client only. This mode installs everything except the databases.

# 3.2.1 Full Mode (client and database)

This mode installs both Sitecore databases and Sitecore client on the local computer.

In the Installation Type window, select the Complete option.



To install Sitecore WebDAV features, you must have the WebClient service on your computer. If the WebClient service is not available, the following message appears:



Disregard this message if you do not want to install WebDAV features. Click Next.

# **Instance Name**

| stance Name<br>Give this new insta      | nce of Sitecore a unique name.  |
|---|---|
|   |   |
| Instance Name:                          | MySyte  |
| NOTE: This name i<br>hostname of an IIS | dentifies this instance of the application. It is also the default<br>6 + Web site. |
|   | < Back Next > Cancel  |

Give a unique name to this new instance of Sitecore CMS. If you choose to create a new site in a later step, this name is also used as the hostname of an IIS web site.

# **License File**

| icense File: | C:\Sitecore\LICENS~1.XML                                      | rowse |
|--------------|---|-------|
| ADDRESS      | 2 Glinky Street, Office 403<br>Dniepropetrovsk<br>DP<br>49000 | ^     |
| COMPANY      |   |       |
| COUNTRY ISO  | UA  |       |
| RESELLER     |   |       |
| PURPOSE      |   |       |
| LICENSEE     | Sitecore Ukraine  | *     |

Browse to the license file that you want to use. Click Next.



#### **Database Server**

Select the database server.

If you select SQL Server, you see the following Database Server dialog box:

| Select the database   | server and authentication m   | nethod to use.  | I    |
|---|-------------------------------|---|------|
| Select the appropria  | ate database vendor:          | SQL Server  | •    |
| from a list of all the<br>the password for th<br>Database Server: | available database servers. S | owse to select the database s<br>select the login to use and er | iter |
| (local)   |                               | <ul> <li>Brows</li> </ul>                                       | e    |
| Login ID:   | sa                            |   |      |
| Password:   | •••••                         |   |      |
| For more options, c   | lick Advanced.                | Advanc  | ed   |
|   | < Back                        | Next > Can  | cel  |

Select the database vendor. Select the database server from a list or click **Browse** to see a list of all the database servers available. Enter the login id (SQL server user name) and the corresponding password. The installation program will use these credentials to access SQL server.

To set the database prefix options, click **Advanced** and the **Advanced Database Options** dialog box appears:

| Advanced Database Option<br>Check the advanced op | tions for the database server.     |
|---|------------------------------------|
| Verify that the wizard c                          | an connect to the database server. |
| Database Prefix:                                  |                                    |
| Database Prefix:                                  | MySite                             |
| Add this prefix to th                             | e names of the physical files.     |
|   |                                    |
|   | OK Cancel                          |

Specify the database prefix for this instance of Sitecore CMS and select whether to prefix physical files or not.

Enter the login id (SQL server user name) and corresponding password. Sitecore applications will use these credentials to access the SQL server. Click **OK**.

Click Next.

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If you select Oracle, you see the following Database Server dialog box:

| Select the database server and a | authentication i | method to use.      |        |
|----------------------------------|------------------|---------------------|--------|
| Select the appropriate database  | vendor:          | Oracle              | •      |
| Oracle Client:                   | OraDb11g_hc      | me1[ODP.NET 2.112.1 | • [0.  |
| Oracle Instance:                 | ORCL             |                     | •      |
| System Password:                 | •••••            |                     |        |
| Prefix:                          | sc71             |                     |        |
| Tablespace:                      | USERS            |                     |        |
|                                  | < Back           | Next >              | Cancel |

#### Important

You must create the appropriate tablespace first. To do this, run the following SQL script:

create tablespace sitecore logging datafile 'sitecore.dbf' size 200M reuse autoextend on next 100M extent management local segment space management auto;

Configure the Oracle database server. This dialog box contains the following fields:

- Oracle Client select the Oracle client.
- **Oracle Instance** select the Oracle instance.
- **System password** password for the system user of the Oracle instance.
- Prefix prefix to use for user schema names and passwords.
- **Tablespace** name of the tablespace for Sitecore data.

Click Next.

#### **Destination Folder**

| Select    | on Folder<br>the location where Sitecore will be installed. Click Change to install<br>ie in a different location. |
|-----------|--|
| nstall Si | tecore in:   |
|           | C:\Inetpub\wwwroot\MySyte Change   |
| For me    | vre options, click Advanced. Advanced.   |
|           | < Back Next > Cancel   |

Select the folder where Sitecore CMS web site will be installed.



To change the database folder and the folder where various data files will be stored — log files, packages, and so on — click **Advanced** and the **Destination Folders** dialog box appears:

|   | Sitecore Data: |  |        |
|---|----------------|--|--------|
|   | C:\Inetpub\w   | wwroot\MySyte\Data                     | Browse |
| _ | Sitecore Datab |  |        |
|   | C:\Inetpub\w   | Browse                                 |        |
|   | MDF Files:     | C:\Inetpub\www.root\MySyte\Database\MI | Browse |
|   | LDF Files:     | C:\Inetpub\wwwroot\MySyte\Database\LD  | Browse |
|   |                |  |        |
|   |                |  |        |
|   |                |  |        |
|   |                |  |        |

Enter new destination folders and click **OK**.

Click Next.

#### Note

Make sure that SQL server has the permissions to write to the destination folder.

## **IIS Web Site**

| Web Site         |                   |        |        | (        |   |
|------------------|-------------------|--------|--------|----------|---|
| Create a new We  | b site.           |        |        |          | Ø |
| Web Site Name:   | MySyte            |        |        |          |   |
|                  |                   |        |        |          |   |
|                  |                   |        |        |          |   |
|                  |                   |        |        |          |   |
|                  |                   |        |        |          |   |
|                  |                   |        |        |          |   |
| For more options | , click Advanced. |        |        | Advanced |   |
|                  |                   |        |        |          |   |
|                  |                   | < Back | Next > | Cancel   |   |



Enter the name of the new website. Click **Advanced** to edit a website port, application pool name and its mode and .NET Framework version.

|            | ed Settings<br>ome additional parame | eters for IIS. |    | Q      |
|------------|--------------------------------------|----------------|----|--------|
| pplication | Pool                                 |                |    |        |
| Create ap  | plication pool named                 | MySyteAppPoo   | I  |        |
| Vebsite    |                                      |                |    |        |
| Port:      | 80                                   |                |    |        |
|            |                                      |                |    |        |
|            |                                      |                |    |        |
|            |                                      |                |    |        |
|            |                                      |                |    |        |
|            |                                      |                | OK | Cancel |

#### Click OK.

The **IIS Web Site** dialog box will reflect the changes. In Sitecore CMS 7.2, the Sitecore ASP.NET MVC Integration is enabled by default, and you will see the corresponding field in the dialog box:

| Create a new Wel | b site.           |  | <b>O</b>  |
|------------------|-------------------|--|-----------|
| Web Site Name:   | MySyte            |  |           |
|                  | Port:             | ON<br>MySyteAppPool<br>80<br>4<br>Integrated |           |
| For more options | , click Advanced. |  | Advanced  |
|                  |                   | < Back Next                                  | :> Cancel |

Click Next.



# **Ready to Install Sitecore**

| ady to Install Sitecore                            | Q  |
|--|--|
| eview the options you selected.<br>stall Sitecore. | Click Back to change an option or click Install to |
| Option:  | Value:   |
| Instance Name:                                     | MySyte   |
| License File:                                      | C:\Sitecore\LICENS~1.XML                           |
| Database Server:                                   | (local)  |
| Destination Folder:                                | C:\Inetpub\wwwroot\MySyte                          |
| Web Site Name:                                     | MySyte   |
| Application Pool Name:                             | MySyteAppPool                                      |
|  | < Back Install Cancel                              |

Review the options you selected. Click **Install** to install Sitecore CMS.

# **Installing Sitecore**



After you click Next, you see a progress window which informs you about the installation process.



# Finish

| 🗒 Sitecore Setup |   | - • •                |
|------------------|---|----------------------|
|                  | The Sitecore Installation<br>Wizard has finished. | <b>O</b><br>sitecore |
|                  | Click Finish to close the wizard.                 |                      |
|                  |   |                      |
|                  |   |                      |
|                  |   |                      |
|                  | ☑ Launch Sitecore                                 |                      |
|                  |   |                      |
|                  | Back  | Cancel               |

The Sitecore Installation Wizard has finished. Click Finish to exit the wizard.

# 3.2.2 Databases Only Installation Mode

This section describes the Databases Only installation mode. This mode only installs Sitecore databases.

# What to Install?

|   | Illation Type<br>elect the type of installation that you want to install.  |
|---|--|
| 0 | Complete Install the Sitecore client and databases on this computer.   |
| ( | Database Only  |
|   | Install the Sitecore databases on this computer. This is suitable for database<br>servers that are accessed by Sitecore clients. |
| ( | Client Only  |
|   | Install the Sitecore client on this computer. This is suitable for Sitecore clients<br>that access database servers.             |
|   | < Back Next > Cancel   |

Select the **Databases only** option to only install the databases.



To install Sitecore WebDAV features, you must have the WebClient service on your computer. If not, the following message appears:



Disregard this message if you do not want to install WebDAV features.

# **Instance Name**

| tance Name<br>Give this new insta | ance of Sitecore a unique name.  |
|-----------------------------------|--|
| Instance Name:                    | MySyte   |
|                                   | dentifies this instance of the application. It is also the default<br>36 + Web site. |
| nosiname or an II:                |  |

Give this new instance of Sitecore CMS a unique name. If you choose to create a new site on a later step, this name is also used as the hostname of an IIS web site.

## **Database Server**

Select the database server.

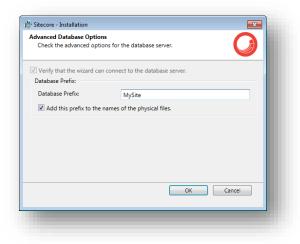


If you select SQL server, you see the following Database Server dialog box:

| Select the database                           | server and authentication met   | thod to use.  |
|---|---------------------------------|---|
| Select the appropri                           | ate database vendor:            | SQL Server 🗸  |
| from a list of all the<br>the password for th | available database servers. Sel | se to select the database server<br>lect the login to use and enter |
| Database Server:<br>(local)                   |                                 | Browse  |
| Login ID:                                     | 59                              | biowsem   |
| Password:                                     | •••••                           |   |
| For more options, o                           | lick Advanced.                  | Advanced  |
|   | < Back                          | Next > Cancel   |

Select the database server from a list or click **Browse** to see a list of all the database servers that are available. Enter the login ID — SQL server user name — and the corresponding password.

To set the database prefix options, click **Advanced** and the **Check the Advanced options of the database server** dialog box appears.



Specify the database prefix for this instance of Sitecore CMS and select whether to prefix physical files or not. Click **OK**.

Click Next.



If you select Oracle, you see the following Database Server dialog box:

| Select the database serve | r and authentication i | method to use.         | <b>U</b> |
|---------------------------|------------------------|------------------------|----------|
| Select the appropriate da | tabase vendor:         | Oracle                 | •        |
| Oracle Client:            | OraDb11g_hc            | me1[ODP.NET 2.112.1.0] | •        |
| Oracle Instance:          | ORCL                   |                        | -        |
| System Password:          | •••••                  |                        |          |
| Prefix:                   | sc71                   |                        |          |
| Tablespace:               | USERS                  |                        |          |
|                           |                        |                        |          |
|                           |                        |                        |          |
|                           | < Back                 | Next > C               | ancel    |

#### Important

You must create the appropriate tablespace first. To do this, run the following SQL script:

create tablespace sitecore logging datafile 'sitecore.dbf' size 200M reuse autoextend on next 100M extent management local segment space management auto;

Configure the Oracle database server. This dialog box contains the following fields:

- Oracle Client select the Oracle client.
- **Oracle Instance** select the Oracle instance.
- System password password for the system user of the Oracle instance.
- Prefix prefix to use for user schema names and passwords.
- **Tablespace** name of the tablespace for Sitecore data.

Click Next.

## **Destination Folder**

| Select    | on Folder<br>the location where Sitecor<br>re in a different location. | e will be installed. Click Ch | ange to install |
|-----------|--|-------------------------------|-----------------|
| nstall Si | tecore in:   |                               |                 |
|           | C:\Inetpub\wwwroot\M   | ySyte                         | Change          |
|           |  |                               |                 |
| For mo    | ore options, click Advanced  | d.                            | Advanced        |
|           |  | < Back Nex                    | t > Cancel      |

Select the location where the databases will be installed.



To change the database folder and the folder where various database files will be stored, click **Advanced**. The **Destination Folders** dialog box appears:

| Select the loca | ations where the database files will be installed. | <b>U</b> |
|-----------------|--|----------|
| MDF Files:      | C:\Inetpub\wwwroot\MySite\Database\MDF             | Browse   |
| LDF Files:      | C:\Inetpub\wwwroot\MySite\Database\LDF             | Browse   |
|                 |  |          |
|                 | ОК   | Cancel   |

Enter destination folders and click **OK**.

Click Next.

# **Ready to Install Sitecore**

| eview the options you selected<br>stall Sitecore. | . Click Back to change an option or click Install | to  |
|---|---|-----|
| Option:   | Value:  |     |
| Instance Name:                                    | MySyte  |     |
| License File:                                     | C:\Sitecore\LICENS~1.XML                          |     |
| Database Server:                                  | (local)   |     |
| Destination Folder:                               | C:\Inetpub\www.root\MySyte                        |     |
| Web Site Name:                                    | MySyte  |     |
| Application Pool Name:                            | MySyteAppPool                                     |     |
|   | < Back Install Can                                | cel |

Review the options you selected. Click Install to install Sitecore CMS.



# **Installing Sitecore**

| nstalling §                     | Sitecore  |
|---------------------------------|---|
| Sitecore i                      | s being installed.  |
| Status:                         | Installing files  |
|                                 |   |
| File:<br>C:\Inetpu<br>adients\i | ib \www.root\MySite\Website\sitecore\shell\Themes\Standard\Gr<br>htblue 1.gif |

After you click **Next**, you see a progress window which informs you about the installation process.

# Finish



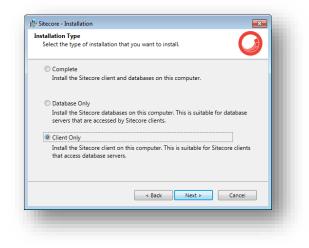
The Sitecore Installation Wizard has finished installation. Click **Finish** to exit the wizard.



# 3.2.3 Client Only Installation Mode

This section describes the Client Only installation mode. This mode installs everything except databases.

# What to Install?



#### Select the **Client only** check box.

To install Sitecore WebDAV features, you must have the WebClient service on your computer. If not, the following message appears:



Disregard this message if you do not want to install WebDAV features. Click Next.

## Instance Name

| tance Name<br>Give this new insta        | nce of Sitecore a unique name.  |
|--|---|
| Instance Name:                           | MySyte  |
| NOTE: This name in<br>hostname of an IIS | dentifies this instance of the application. It is also the default<br>6 + Web site. |
|  |   |



Give a unique name to the new instance of Sitecore CMS. If you choose to create a new site on a later step, the hostname of an IIS web site will also use this name.

## License File

| icense File: | C:\Sitecore\LICENS~1.XML                                      | Browse |
|--------------|---|--------|
| ADDRESS      | 2 Glinky Street, Office 403<br>Dniepropetrovsk<br>DP<br>49000 | •      |
| COMPANY      |   |        |
| COUNTRY ISO  | UA  | -      |
| RESELLER     |   |        |
| PURPOSE      |   |        |
| LICENSEE     | Sitecore Ukraine  | *      |

Select the license file. Click Next.

## **Database Server**

Select the database server.

If you have selected SQL server, you see the following Database Server dialog box:

| Select the database              | e server and authentication m | ethod to use.   | A |
|----------------------------------|-------------------------------|---|---|
|                                  |                               |   |   |
| elect the appropri               | ate database vendor:          | SQL Server  | • |
|                                  | available database servers. S | wse to select the database ser<br>elect the login to use and ente |   |
| Database Server:                 |                               |   |   |
| (local)                          |                               | <ul> <li>Browse.</li> </ul>                                       |   |
| Login ID:                        | sa                            |   |   |
|                                  | ••••                          |   |   |
| Password:                        |                               |   |   |
| Password:<br>For more options, o | lick Advanced.                | Advanced  | d |

Select the database vendor. Select the database server from a list or click **Browse** to see a list of all the database servers available. Enter the login id — SQL server user name — and the corresponding password. The installation program will use these credentials to access the SQL server.



To set the database prefix options, click **Advanced** and the **Check the advanced options of the database server** dialog box appears.

| dvanced Database Optio<br>Check the advanced opti | ns<br>ions for the database server. |
|---|-------------------------------------|
|   |                                     |
|   | n connect to the database server.   |
| Database Prefix:                                  |                                     |
| Database Prefix:                                  | MySite                              |
| Add this prefix to the                            | names of the physical files.        |
|   |                                     |
|   | OK Cancel                           |

Specify the database prefix for this instance of Sitecore CMS and select whether to prefix physical files or not. Click **OK**.

Click Next.

If you select Oracle, you see the following Database Server dialog box:

| tabase Server<br>Select the database server and | authentication metho | id to use.         |   |
|---|----------------------|--------------------|---|
| Select the appropriate database                 | vendor:              | Oracle             | • |
| Oracle Client:                                  | OraDb11g_home1[0     | DDP.NET 2.112.1.0] | • |
| Oracle Instance:                                | ORCL                 |                    | • |
| System Password:                                | •••••                |                    |   |
| Prefix:   | sc71                 |                    |   |
| Tablespace:                                     | USERS                |                    |   |
|   | < Back               | Next > Cance       | 2 |

#### Important

You must create the appropriate tablespace first. To do this, run the following SQL script:

create tablespace sitecore logging datafile 'sitecore.dbf' size 200M reuse autoextend on next 100M extent management local segment space management auto;

Configure the Oracle database server. This dialog box contains the following fields:

- Oracle Client select the Oracle client.
- Oracle Instance select the Oracle instance.
- **System password** password for the system user of the Oracle instance.
- Prefix prefix to use for user schema names and passwords.
- **Tablespace** name of the tablespace for Sitecore data.



Click Next.

# **Destination Folder**

| Select     | on Folder<br>he location where Sitecore will be insta<br>e in a different location. | alled. Click Change to install |  |
|------------|---|--------------------------------|--|
| nstall Sit | ecore in:   |                                |  |
|            | C:\Inetpub\wwwroot\MySyte   | Change                         |  |
| For mo     | re options, click Advanced.   | Advanced                       |  |
|            |   |                                |  |
|            | < Bac   | k Next > Cancel                |  |

Select the location where Sitecore will be installed.

To change the database folder and the folder where various database files will be stored, click **Advanced** and the **Destination Folders** dialog box appears:

| _ |                |   |
|---|----------------|---|
|   | Sitecore Data: | wwroot\MySite\Data Browse                     |
|   | er unetpub (m  | biotracia                                     |
|   |                |   |
|   |                |   |
|   | MDF Files:     | C:\Inetpub\wwwroot\MySite\Database\MC Browse  |
|   | LDF Files:     | C:\Inetpub\wwwroot\MySite\Database\LDf Browse |
|   |                |   |
|   |                |   |
| _ |                |   |
|   |                | OK Cancel                                     |

Enter destination folders and click **OK**. Click **Next**.



# **IIS Web Site**

| Web Site<br>Create a new Web sit |             |        |        |          |
|----------------------------------|-------------|--------|--------|----------|
| create a new web sit             | e.          |        |        |          |
| Veb Site Name: M                 | /Syte       |        |        |          |
|                                  |             |        |        |          |
|                                  |             |        |        |          |
|                                  |             |        |        |          |
|                                  |             |        |        |          |
|                                  |             |        |        |          |
| or more options, clic            | k Advanced. |        | (      | Advanced |
|                                  | (           | < Back | Next > | Cancel   |
|                                  |             | < Back | Next > | Cancel   |

Enter the name of the new website.

Click **Advanced** to edit a website port, application pool name and mode, .NET Framework version.

| S Advanced Set<br>Specify some a | idditional parame | eters for IIS. |    |        |   |
|----------------------------------|-------------------|----------------|----|--------|---|
| Application Pool                 |                   |                |    |        |   |
| Create applicati                 | ion pool named    | MySyteAppPool  |    |        |   |
| Website                          |                   |                |    |        |   |
| Port: 80                         | 1                 |                |    |        |   |
|                                  |                   |                |    |        |   |
|                                  |                   |                |    |        |   |
|                                  |                   |                |    |        |   |
|                                  |                   |                |    |        |   |
|                                  |                   |                | ОК | Cancel | ] |

Click **OK**. Click **Next**.

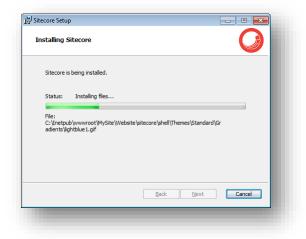


# **Ready to Install Sitecore**

| ady to Install Sitecore                            | (  |   |
|--|--|---|
| eview the options you selected<br>sstall Sitecore. | . Click Back to change an option or click Install to | ) |
| Option:  | Value:   |   |
| Instance Name:                                     | MySyte   |   |
| License File:                                      | C:\Sitecore\LICENS~1.XML                             |   |
| Database Server:                                   | (local)  |   |
| Destination Folder:                                | C:\Inetpub\wwwroot\MySyte                            |   |
| Web Site Name:                                     | MySyte   |   |
| Application Pool Name:                             | MySyteAppPool  |   |
|  | < Back Install Cancel                                |   |

Review the options you selected. Click **Install** to install Sitecore CMS.

# **Installing Sitecore**



After you click **Next**, you see a progress window which will inform you about the installation process.



# Finish

| Sitecore Setup |   | - • •    |
|----------------|---|----------|
|                | The Sitecore Installation<br>Wizard has finished. | Sitecore |
|                | Click Finish to close the wizard.                 |          |
| Rala           |   |          |
|                |   |          |
|                |   |          |
|                |   |          |
|                |   |          |
|                | <u>B</u> ack Einish                               | Cancel   |
| 11000          |   |          |
|                |   |          |

The Sitecore Installation Wizard has finished installation. Click Finish to exit the wizard.



# 3.3 Uninstalling Sitecore

To start the process of uninstalling Sitecore, perform one of the following actions:

• Open Windows Control Panel and select the **Programs and Features** option.

In the **Uninstall or change a program** window, locate the appropriate entry, right-click it and then click **Uninstall**:

| 🗲 🗢 🗮 « All Control Panel             | Items  | Search Programs and Fea             | atures 🔎              |
|---------------------------------------|--|-------------------------------------|-----------------------|
| Control Panel Home                    | Uninstall or change a program                            |                                     |                       |
| View installed updates                | To uninstall a program, select it from the list and then | click Uninstall, Change, or Repair. |                       |
| Turn Windows features on or           |  |                                     |                       |
| off                                   | Organize 💌 Uninstall                                     |                                     | = - (2)               |
| Install a program from the<br>network | Name   | Publisher                           | Installed On <b>^</b> |
| HELWOIK                               | MSXML 4.0 SP2 (KB973688)                                 | Microsoft Corporation               | 14.12.12              |
|                                       | Nicam 1.5.1 rev. 120307 - Nicam                          | Sitecore Corporation                | 21.12.12              |
|                                       | Notepad++  | Sitecore corporation                | 14.12.12              |
|                                       | Paint.NET v3.5.10  | dotPDN LLC                          | 17.12.12              |
|                                       | Realtek HDMI Audio Driver for ATI                        | Realtek Semiconductor Corp.         | 06.12.12              |
|                                       | Sitecore 6.5.0 rev. 120706 - CMS65                       | Sitecore Corporation                | 12.12.12              |
|                                       | Sitecore 6.6.0 rev. 121015 - NewInstance1                | Sitecore Corporation                | 11.12.12              |
|                                       | Sitecore 7.0.0 rev. 130108 - NewInstance4                | Sitecore Corporation                | 09.01.13              |
|                                       | Skype™ 6.0   | Skype Technologies S.A.             | 07.12.12              |
|                                       | St TortoiseSVN 1.7.10.23359 (64 bit)                     | TortoiseSVN                         | 12.12.12              |
|                                       | TrueCrypt  | TrueCrypt Foundation                | 06.12.12              |
|                                       | Visual Studio 2010 Prerequisites - English               | Microsoft Corporation               | 25.05.12              |
|                                       | Pisual Studio 2010 Tools for SQL Server Compact 3.5      | Microsoft Corporation               | 25.05.12              |
|                                       | WCF RIA Services V1.0 SP1                                | Microsoft Corporation               | 25.05.12              |
|                                       | 🏘 Web Deployment Tool                                    | Microsoft Corporation               | 25.05.12 ≡            |
|                                       | 🔗 Winamp   | Nullsoft, Inc                       | 18.12.12              |
|                                       | Winamp Detector Plug-in                                  | Nullsoft, Inc                       | 18.12.12              |
|                                       | Mindows Live Essentials                                  | Microsoft Corporation               | 25.05.12              |

• Launch the Sitecore 7.X rev.XXXXX.exe application, in the Add or Remove Sitecore Instance step; select the Existing Instance check box.

| <br>nove a Sitecore Instance<br>want to create a new instance of Sitecore or remove an existing   |
|---|
| New Instance     Create a new instance of Sitecore.     Existing Instance     Remove an existing instance of Sitecore. To install another instance,     you must run the installation wizard again.     Sitecore Instance:     [CMS650R110602 ] |
| <br>< Back Next > Cancel  |

After uninstalling Sitecore, restart the SQL Server and IIS services as appropriate.

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# 3.4 Troubleshooting

### If the installation program fails

If the installation program fails, archive the log file and attach it to your support request.

If the installation program fails after you click **Install** in the **Ready to Install** dialog box, the log file is automatically created at: %TEMP%\SitecoreInstaller.log.

#### Note

The log file is recreated during each installation. You should therefore copy it right after an unsuccessful installation. Otherwise, the file will be overwritten.

### "Database '...' cannot be upgraded" error message while using SQL Server

When using SQL Server the installer returns the "Database '...' cannot be upgraded" error message, the user account configured to run the SQL server application must have Full access permissions to the website root folder. Typically, the SQL server application runs in the context of the NETWORK SERVICE account.



# **Chapter 4**

# Installing from the .ZIP File

This chapter describes how to install Sitecore CMS using the ZIP archive of the Web site root. You can download the ZIP archive from the following page:

http://sdn.sitecore.net/SDN5/Resources/Sitecore%207/Sitecore%20CMS.aspx

This chapter contains the following sections:

- Installation Process Overview
- Configuring Folder and Registry Permissions
- Configuring the IIS
- Microsoft SQL Server Configuration
- Oracle Database Storage Setup
- Uninstalling Sitecore (ZIP installation)



# 4.1 Installation Process Overview

This section describes how to install Sitecore from a ZIP archive of the Sitecore CMS site root.

You can download the Sitecore CMS ZIP archive from the following page:

http://sdn.sitecore.net/SDN5/Resources/Sitecore%207/Sitecore%20CMS.aspx

To install an instance of Sitecore:

- 1. Install Microsoft .NET Framework V4.5.
- 2. Choose a parent directory path for the project, for example C:\InetPub\ProjectName.
- 3. Extract the .zip archive to create the following folders:

```
C:\InetPub\ProjectName\Website
C:\InetPub\ProjectName\Data
C:\InetPub\ProjectName\Databases
```

- 4. Set permissions as described in Section 4.2, Configuring Folder and Registry Permissions.
- 5. Place the appropriate license.xml file to the /Data folder. The location of the /Data folder is determined by the following setting in the web.config file:

<sc.variable name="dataFolder" value="/data" />

This setting should be changed to the absolute location of the folder, such as: C:\InetPub\ProjectName\Data

- 6. If you are running SQL Server, attach SQL databases from /Databases folder to the SQL server.
- 7. If you are running SQL Server, edit the ConnectionStrings.config file located in the /Website/App\_Config/ folder. Enter the appropriate values in a line for each database, for instance:

```
<add name="core" connectionString="user
id=_sql_server_user_;password=_user_password_;Data
Source= sqlserver ;Database= core database name " />
```

- 8. In the IIS, configure the web site as described in Section 4.3, Configuring the IIS.
- 9. Configure the Internet Explorer browser as described in Browser Configuration Reference.
- 10. Start the browser and enter the following address in the address bar:

http://ProjectName/sitecore



You should see the Sitecore login screen now:

| Welco                               | ome to Sit              | ecore       |            | older: Sitecore Ukraine<br>): 20121205220054                              |
|-------------------------------------|-------------------------|-------------|------------|---|
|                                     |                         |             | Sitecore.N | IET 7.0.0 (rev. 130108)   |
| User Nan<br>Passwo                  |                         |             |            |   |
| Forgot                              | Your Password Change Pa | assword     | Brows      | er Notes  |
| User Interface:                     | Options                 |             | You are n  | to Sitecore CMS 7.0.<br>unning Mozilla Firefox.<br>supports this browser. |
| 🛃 Desktop                           | Content Editor          | Page Editor |            |   |
| User Interface Language:<br>Default |                         |             | -          |   |
| Detail                              | Close Options           |             |            |   |
|                                     |                         |             |            |   |

The default password for the Admin user is "b".



# 4.2 Configuring Folder and Registry Permissions

This section describes the NTFS permissions for folders and files and Windows registry permissions required by Sitecore CMS for proper functioning. For practical advice on how to edit NTFS permissions and registry permissions, please refer to the section **Server Configuration**, and to the MSDN web site and Windows help application.

# 4.2.1 File System Permissions for Anonymous Requests

Certain types of browser requests (generally for directory lookups and static resources) are executed with the permissions of the anonymous Internet user account. This account requires *Read* permissions to all files, folders, and subfolders under the /Website folder.

The following table contains the default name for this account in different versions of IIS:

| IIS version | Default anonymous Internet user account name |
|-------------|--|
| 7 and 7.5   | IUSR   |

If IIS is configured not to use the default IUSR account for processing anonymous requests or Anonymous authentication is not enabled for the web site, the aforementioned permissions should be granted to the corresponding account(s).

# 4.2.2 File System Permissions for ASP.NET Requests

Requests for ASP.NET resources and all the .NET code running within the application is executed with the permissions of the account configured as an identity for the web site's application pool. This account requires *Modify* permissions to all files, folders, and subfolders under the /Website and /Data folders.

The following table contains the default account used for processing ASP.NET requests in different versions of IIS:

| IIS version | Default ASP.NET account name |
|-------------|------------------------------|
| 7           | NETWORK SERVICE              |
| 7.5         | AppPoolIdentity              |

IIS 6 and later versions allow changing the user account used for processing ASP.NET requests.

If you choose a different user account for processing ASP.NET requests, you must grant this account the aforementioned permissions.

### Note

For more information about application pool identities and specifically about assigning rights to the AppPoolIdentity account, refer to the following article: <u>http://learn.iis.net/page.aspx/624/application-pool-identities/</u>

# 4.2.3 File System Permissions for System Folders

To be able to load .NET runtime and ASP.NET resources used for processing the ASP.NET requests, the worker process hosting the Sitecore CMS application requires access to multiple system files and folders that are not distributed as a part of the Sitecore CMS but installed as a part of Windows OS and .NET framework.

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Most of these permissions are granted by IIS to all ASP.NET applications automatically making the application pool identity account a member of the *IIS\_IUSRS* security group.

However, on certain environments it is necessary to manually grant permissions for the application pool identity to the following system locations:

| Default location               | Required permissions | Comments  |
|--------------------------------|----------------------|---|
| %WINDIR%\temp\                 | Modify               |   |
| %WINDIR%\Globalization\        | Modify               | Required for registering custom<br>languages by the .NET Framework<br>correctly |
| %PROGRAMDATA%\Microsoft\Crypto | Modify               | Required for storing cryptographic keys used for encrypting/decrypting data     |

### Note

ASP.NET and/or IUSR\_\* users require the modify access rights to the \temp folder to install Sitecore CMS.

These variables mentioned have the following default values:

| Variable      | Default value                      |
|---------------|------------------------------------|
| %WINDIR%      | C:\Windows                         |
| %PROGRAMDATA% | C:\ProgramData for IIS 7 and later |

#### Note

For more information about built-in groups and accounts in IIS, refer to <a href="http://learn.iis.net/page.aspx/140/understanding-built-in-user-and-group-accounts-in-iis-7/">http://learn.iis.net/page.aspx/140/understanding-built-in-user-and-group-accounts-in-iis-7/</a>

# 4.2.4 File System Permissions for SQL Server Files

If you are using SQL Server, the user account configured to run the SQL server application requires *Full access* to the /Databases folder containing MDF and LDF database files. Typically, the SQL server application runs within the context of the *NETWORK SERVICE* account.

# 4.2.5 Windows Registry Permissions

Sitecore CMS contains a built-in functionality that reads and updates the Windows performance counters that can be used for monitoring and troubleshooting the Sitecore application. This functionality requires access to Windows registry keys. This access can be granted by making the application pool identity a member of the built-in *Performance Monitor Users* group.

### Note

If the required registry permissions are not granted, the "Access to the registry key 'Global' is denied" error will be written in the Sitecore log files whenever the application attempts to access Windows performance counters.

To avoid the error, you must prevent Sitecore from updating the performance counters. To do that, in the web.config file, set the "Counters.Enabled" setting to "false".



### Adding an Account to a User Group

To add a Windows account to a user group, use the net localgroup command.

For example, to add the *NETWORK SERVICE* account to the *Performance Monitor Users* group, run the following command on the server hosting the Sitecore CMS web application:

net localgroup "Performance Monitor Users" /add "NETWORK SERVICE"

IIS reset is required for the changes to take effect.

For more information about the net localgroup command, refer to <a href="http://www.microsoft.com/resources/documentation/windows/xp/all/proddocs/en-us/net\_localgroup.mspx">http://www.microsoft.com/resources/documentation/windows/xp/all/proddocs/en-us/net\_localgroup.mspx</a>



# 4.3 Configuring the IIS

The following sections describe how to configure different versions of IIS (versions 7, 7.5, 8 and 8.5) for Sitecore CMS.

The following list shows which operating systems use which IIS versions:

- IIS 7 Windows Server 2008, Windows Vista
- IIS 7.5 Windows Server 2008 R2 SP1, Windows 7
- IIS 8 Windows Server 2012, Windows 8
- IIS 8.5 Windows Server 2012 R2, Windows 8.1

# 4.3.1 IIS 7, 7.5, 8, 8.5

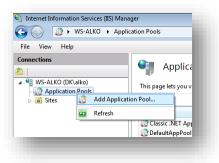
This section contains the instructions for IIS 7, 7.5, 8 and 8.5.

### **Create the Application Pool**

This section describes how to create the application pool for Sitecore on IIS 7, 7.5, 8 and 8.5 (Windows 7, Windows Server 2008, Windows 8, and Windows 8.1).

To create the application pool:

- 1. Start the **IIS Manager**.
- 2. In the **Connections** panel, select **Application Pools**.



3. Right-click Application Pools and click Add Application Pool.

| _  |                                      |
|----|--------------------------------------|
| ٩c | ld Application Pool 💦 🛃              |
|    |                                      |
| 1  | Name:                                |
|    | ProjectNameAppPool                   |
|    | .NET <u>F</u> ramework version:      |
| ſ  | .NET Framework v4.0.30319            |
| r  | Managed pipeline mode:<br>Integrated |
| [  | Start application pool immediately   |
|    | OK Cancel                            |
|    |                                      |
|    |                                      |
|    |                                      |



4. In the Add Application Pool dialog box, enter the following values:

Name: ProjectNameAppPool .NET Framework version: 4.0 XXXXX Managed pipeline mode: Integrated.

- 5. Click **OK**.
- 6. In the Application Pools panel, select the application pool you have just created.

| ile View Help                 |   |  |                 |                      |                       |   |
|-------------------------------|---|--|-----------------|----------------------|-----------------------|---|
| Eile View Help<br>Connections | Application Poo<br>This page lets you view and mana<br>pools are associated with worker p<br>isolation among different applicat<br>Filter: • • • • • • • • •<br>Name<br>ASP.NET v4.0<br>ASP.NET v4.0<br>ASP.NET v4.0<br>CMS65AppPool<br>CMS65AppPool<br>CMS65AppPool<br>NewInstancelAppPool<br>NicamAppPool<br>ProjectNameAppPool<br>SC66<br>SC66<br>SC66<br>CMS65AppPool | ge the list of app<br>rocesses, contai | n one or more a | applications, and pr | ovide<br><del>ç</del> | Actions       Image: Set Application Pool       Set Application Pool Defaults       Application Pool Tasks       Image: Stop       Recycle       Edit Application Pool       Basic Settings       Recycling       Advanced Settings       Rename       Y       Renove       View Applications       Image: Help       Online Help |
|                               | Features View Content View  |  |                 |                      |                       |   |



7. In the Actions panel, click Advanced Settings.

| ET Framework Version<br>able 32-Bit Applications<br>anaged Pipeline Mode<br>ame<br>ueue Length | v4.0<br>False<br>Integrated<br>ProjectNameAppPool  | E   |
|--|--|---|
| anaged Pipeline Mode<br>ame  | Integrated<br>ProjectNameAppPool   | =   |
| ame  | ProjectNameAppPool   | E   |
|  |  | =   |
| Jeue Length  |  |   |
|  | 1000   |   |
| art Automatically  | True   |   |
| บ  |  |   |
| mit  | 0  |   |
| mit Action   | NoAction   |   |
| mit Interval (minutes)   | 5  |   |
| ocessor Affinity Enabled   | False  |   |
| ocessor Affinity Mask  | 4294967295   |   |
| ocess Model  |  |   |
| entity   | ApplicationPoolIdentity  |   |
| le Time-out (minutes)  | 20   |   |
| ad User Profile  | True   |   |
| aximum Worker Processes  | 1  |   |
| ng Enabled   | True   | *   |
|  | U<br>mit<br>mit Action<br>mit Interval (minutes)<br>occessor Affinity Enabled<br>occess Model<br>entity<br>e Time-out (minutes)<br>ad User Profile<br>aumum Worker Processes | U     0       mit     0       mit Action     NoAction       mit Interval (minutes)     5       ocessor Affinity Enabled     False       ocessor Affinity Mask     429407295       ocess Model |

- 8. In the **Advanced Settings** dialog box:
  - Set the .NET Framework version to v4.0.
  - Set the **Identity** setting to the built-in account called *ApplicationPoolIdentity* or *NetworkService*.
  - Ensure that the Maximum Worker Processes setting is set to 1.
  - Set the **Load User Profile** setting to *True*.

### **Create the Website**

To configure the website:

- 1. Start the **IIS Manager**.
- 2. In the Connections panel, expand Sites.

| ا 🖻 🕥 💽                                     | WS-ALKO > Sites                 | •                        |
|---|---------------------------------|--------------------------|
| <u>F</u> ile <u>V</u> iew <u>H</u> e        | lp                              | _                        |
| Connections                                 |                                 | Filter:                  |
| ⊿ <mark>© Siter</mark><br>▷ • • • • • • • • | Add Web Site<br><u>R</u> efresh | Name<br>efau<br>:ms      |
| ▷ 😔 🖓<br>▷ 😔 MyTe<br>▷ 🍪 SC64               |                                 | W IySi<br>W IySi<br>MyTe |



3. Right-click *Sites* and then click **Add Web Site**.

| <u>S</u> ite name:       | Application pool         |       |                 |
|--------------------------|--------------------------|-------|-----------------|
| ProjectName              | ProjectNameApp           | Pool  | S <u>e</u> lect |
| Content Directory        |                          |       |                 |
| Physical path:           |                          |       |                 |
| C:\InetPub\ProjectName   | Website                  |       |                 |
| Pass-through authenticat | ion                      |       |                 |
|                          | <b>0</b>                 |       |                 |
| Connect as Test          | Settings                 |       |                 |
|                          |                          |       |                 |
| Binding                  |                          |       |                 |
|                          | address:                 | Port: |                 |
| http 🔻 A                 | ll Unassigned            | - 80  |                 |
| <u>H</u> ost name:       |                          |       |                 |
| projectname              |                          |       |                 |
| Example: www.contoso.c   | om or marketing.contoso. | com   |                 |
|                          | 2                        |       |                 |
|                          |                          |       |                 |
| Start Web site immediate | lv                       |       |                 |
|                          | -,                       |       |                 |
|                          |                          | ОК    | Cancel          |
|                          |                          | UK    | Cancel          |

4. In the Add Web Site dialog box, fill in the required fields, for example:

Site name: ProjectName Application pool: ProjectNameAppPool Physical path: C:\InetPub\ProjectName\Website Host name: projectname

- 5. Click **OK**.
- 6. Add the following line to your hosts file that is located at C:\Windows\System32\drivers\etc:

127.0.0.1 projectname

Now you can access your website by entering the http://projectname address in your browser.

### Limit Access to Anonymous Users

You should prevent anonymous users from accessing the following folders:

- /App\_Config
- /sitecore/admin
- /sitecore/debug
- /sitecore/shell/WebService

For instance, to limit anonymous access to the /App Config folder:

1. Open the IIS.



2. In the Connections panel, browse your Sitecore site and select the /App Config folder.

| Image: Sites       > sites       > econsite.net       > App_Config         Image: Sites       Image: Sites       Image: Sites       Image: Sites       Image: Sites         Image: Sites       Image: Sites       Image: Sites       Image: Sites       Image: Sites       Image: Sites         Image: Sites       I   |
|--|
| Connections       App_Config Home  |
| App_Config Home<br>App_Config Home<br>App_Config Home<br>Fitter:<br>App_Config Home<br>Fitter:<br>App_Config<br>App_Config<br>App_Config<br>App_Config<br>App_Config<br>App_Config<br>App_Config<br>App_Config<br>App_Config<br>App_Config<br>App_Config<br>App_Config<br>App_Config<br>App_Config<br>App_Config<br>App_Config<br>App_Config<br>Authorizat Compilation<br>NET Firor<br>Authorizat Compilation<br>Authorizat Compilation<br>NET Firor<br>Authorizat Compilation<br>NET Firor<br>Authorizat Compilation<br>Authorizat Compilation  |
| Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy<br>Redy |

- 3. In the **App\_Config Home** panel, double-click **Authentication** to configure the authentication settings for this folder.
- 4. In the Authentication panel, ensure that the Anonymous Authentication is disabled.

| 🗿 🌍 📔 🕨 WS-ALKO 🔸 Sit  | es + ecmsite.net + App_Config +               |                      |               | 🐱 🖂 😧 🕶                   |
|--|---|----------------------|---------------|---------------------------|
| <u>F</u> ile <u>V</u> iew <u>H</u> elp   |   |                      |               |                           |
| Connections  | Group by: No Grouping •                       |                      |               | Actions<br>Enable<br>Edit |
| Application Pools  | Name  | Status               | Response Type | Help                      |
| <ul> <li>Default Web Site</li> <li>Cernsite.net</li> <li>C</li></ul> | Anonymous Authentication                      | Disabled             |               | Online Help               |
|  | ASP.NET Impersonation<br>Forms Authentication | Disabled<br>Disabled | HTTP 302 Logi | Unime Help                |

- 5. Repeat steps 2-4 for the other folders you want to secure.
- 6. Restart the IIS.



# 4.4 Microsoft SQL Server Configuration

When you install Microsoft SQL Server, select **Mixed Mode** authentication (Windows Authentication and SQL Server Authentication).

If you have already installed MS SQL and you need to change the security authentication mode, refer to the following article:

http://technet.microsoft.com/en-us/library/ms188670.aspx

#### Note

It is also possible to use Windows authentication to connect to the SQL server. For more information on connecting to the SQL server, refer to <u>http://msdn.microsoft.com/en-us/library/ff647396.aspx</u>

### 4.4.1 Creating a Database Account for Sitecore CMS Databases on SQL Server 2008

This section describes how to create a database account for Sitecore databases under SQL Server 2008 with the minimum required permissions.

- 1. Start SQL Server Management Studio.
- 2. Make sure the Sitecore databases are attached.
- 3. In SQL Server Management Studio, in the Object Explorer pane, expand the Security folder.
- 4. Right-click the Logins folder and click New Login to create a new login.

| Select a page  | 🖾 Script 🔻 🚺 Help  |                     |          |    |                 |
|--|--|---------------------|----------|----|-----------------|
| Server Roles<br>User Mapping<br>Securables<br>Status | Login <u>n</u> ame:  | SC user             |          |    | S <u>e</u> arch |
|  | <ul> <li><u>SQL</u> Server authentication</li> <li>Password:</li> </ul>          |                     |          |    |                 |
|  | _  |                     |          |    |                 |
|  | Confirm password:  | •••••               |          |    |                 |
|  | Specify old password   |                     |          |    |                 |
|  | Old password:  |                     |          |    |                 |
|  | <ul> <li>Enforce password policy</li> <li>Enforce password expiration</li> </ul> |                     |          |    |                 |
|  | User must change passv   |                     |          |    |                 |
|  | <ul> <li>Mapped to certificate</li> </ul>  |                     |          |    |                 |
|  | Mapped to asymmetric key   |                     |          |    |                 |
|  | Map to Credential  |                     |          |    | Add             |
| Connection   | Mapped Credentials   | Credential          | Provider |    | Maa             |
| Server:<br>(local)                                   |  | Credential          | Provider |    |                 |
| Connection:<br>sa                                    |  |                     |          |    |                 |
| sa<br>View connection properties                     |  |                     |          |    |                 |
| View connection properties                           |  |                     |          |    |                 |
| Progress   |  |                     |          |    | Remove          |
| Ready  | Default <u>d</u> atabase:  | master              |          | •  |                 |
| ALL              | Default language:  | <default></default> |          | •  |                 |
|  |  |                     |          |    |                 |
|  |  |                     |          | ок | Cancel          |

- 5. In the Login New window, select the General page and specify the login name.
- 6. Select the **SQL Server authentication** option and clear the **User must change password at next login** checkbox (this option is not supported on some Windows operating systems).



7. Select the **User Mapping** page and in the **User mapped to this login** field, select the Sitecore databases.

| electapage<br>PGeneral  | Script   | ▼ 📑 Help  |         |                                       |  |  |  |
|---|--|---|---------|---------------------------------------|--|--|--|
| Server Roles  |  |   |         |                                       |  |  |  |
| User Mapping Securables   |  | Users mapped to this login:   |         |                                       |  |  |  |
| Status  | Map  | Database  | User    | Default Schema 🔺                      |  |  |  |
| Clarab  |  | master  |         |                                       |  |  |  |
|   |  | model   |         |                                       |  |  |  |
|   |  | msdb  |         |                                       |  |  |  |
|   |  | SC100104ECM100331_Analytics   |         |                                       |  |  |  |
|   | <b>V</b>   | SC100104ECM100331Sitecore_Core  | SC user |                                       |  |  |  |
|   | <b>V</b>   | SC100104ECM100331Sitecore_Master  | SC user |                                       |  |  |  |
|   | <b>V</b>   | SC100104ECM100331Sitecore_Web   | SC user |                                       |  |  |  |
|   |  | SC100104ECMWIN7_Analytics   |         |                                       |  |  |  |
|   |  |   |         |                                       |  |  |  |
|   |  | SC100104ECMWIN7Sitecore_Core  |         | 4                                     |  |  |  |
|   | <  | III<br>t account enabled for: SC100104ECM100331Sitecor  | -       | •                                     |  |  |  |
| Connection  | Gues<br>Databas  | III<br>account enabled for: SC100104ECM100331Stecon<br>s tole membership for: SC100104ECM100331Stecon<br>et, Membership BasicAccess   | -       |                                       |  |  |  |
| Server:   | Gues<br>Database   | III<br>account enabled for: SC100104ECM100331Sitecor<br>a gole membership for: SC100104ECM100331Sitecor<br>et_Membership_BasicAccess<br>et_Membership_CHACcess  | -       | , `                                   |  |  |  |
| Server:<br>(local)  | Gues<br>Database<br>V aspn<br>V aspn<br>V aspn   | III<br>account enabled for: SC100104ECM100331Stecon<br>s role membership for: SC100104ECM100331Stecon<br>et_Membership_FullAccess<br>et_Membership_FullAccess   | -       | , , , , , , , , , , , , , , , , , , , |  |  |  |
| Server:<br>(local)<br>Connection:   | Gues<br>Database<br>Gues<br>Database<br>Sapn<br>Sapn<br>Sapn<br>Sapn<br>Sapn<br>Sapn<br>Sapn<br>Sapn   | III<br>account enabled for: SC100104ECM100331Sitecor<br>a gole membership for: SC100104ECM100331Sitecor<br>et_Membership_BasicAccess<br>et_Membership_CHACcess  | -       |                                       |  |  |  |
| Server:<br>(ocal)<br>Connection:<br>sa  | Gues     Databas     V aspn     v aspn     v aspn     aspn     aspn     aspn     aspn     aspn     aspn  | III<br>a cocurt enabled for: SC100104ECM100331 Stecor<br>a role membership for: SC100104ECM100331 Stecor<br>at <u>Membership Fol</u> Access<br>et Membership FolAccess<br>et Membership FolAccess<br>et Membership ReportingAccess<br>et Personalization FulAccess<br>et Personalization FulAccess<br>et Personalization FulAccess<br>et Personalization FulAccess  | -       | ·                                     |  |  |  |
| Server:<br>(local)<br>Connection:<br>sa   | Gues<br>Databas<br>V aspn<br>V aspn<br>V aspn<br>aspn<br>aspn<br>V aspn<br>V aspn  | III<br>account enabled for: SC100104ECM100331Sitecon<br>a gole membership for: SC100104ECM100331Sitecon<br>et, <u>Membership, EduAccess</u><br>et, <u>Membership, FepOrtingAccess</u><br>et, <u>Membership, FepOrtingAccess</u><br>et, <u>Personalization, FulAccess</u><br>et, <u>Personalization, FulAccess</u><br>et, <u>Personalization, FulAccess</u><br>et, <u>Personalization, FulAccess</u><br>et, <u>Personalization, FulAccess</u><br>et, <u>Personalization, FueAccess</u><br>et, <u>Personalization, Personalization, Personal</u> | -       | ·                                     |  |  |  |
| Server:<br>(local)<br>Connection:<br>sa<br>I View connection propertie                          | Gues<br>Databas<br>V aspn<br>V aspn<br>aspn<br>aspn<br>aspn<br>V aspn<br>V aspn<br>V aspn  | III<br>a cocurt enabled for: SC100104ECM100331Stecor<br>a cole membership for: SC100104ECM100331Stecor<br>a <u>Membership FallAccess</u><br>et <u>Membership FallAccess</u><br>et <u>Membership FallAccess</u><br>et <u>Personalization FallAccess</u><br>et <u>Personalization FallAccess</u><br>et <u>Personalization FallAccess</u><br>et <u>Personalization FallAccess</u><br>et <u>Personalization FallAccess</u><br>et <u>Profile FallAccess</u><br>et <u>Profile FallAccess</u>  | -       | ·                                     |  |  |  |
|   | ✓       Outabas       ✓ <td>III<br/>account enabled for: SC100104ECM100331Sitecon<br/>a gole membership for: SC100104ECM100331Sitecon<br/>et, <u>Membership, EduAccess</u><br/>et, <u>Membership, FepOrtingAccess</u><br/>et, <u>Membership, FepOrtingAccess</u><br/>et, <u>Personalization, FulAccess</u><br/>et, <u>Personalization, FulAccess</u><br/>et, <u>Personalization, FulAccess</u><br/>et, <u>Personalization, FulAccess</u><br/>et, <u>Personalization, FulAccess</u><br/>et, <u>Personalization, FueAccess</u><br/>et, <u>Personalization, Personalization, Personal</u></td> <td>-</td> <td>·</td> | III<br>account enabled for: SC100104ECM100331Sitecon<br>a gole membership for: SC100104ECM100331Sitecon<br>et, <u>Membership, EduAccess</u><br>et, <u>Membership, FepOrtingAccess</u><br>et, <u>Membership, FepOrtingAccess</u><br>et, <u>Personalization, FulAccess</u><br>et, <u>Personalization, FulAccess</u><br>et, <u>Personalization, FulAccess</u><br>et, <u>Personalization, FulAccess</u><br>et, <u>Personalization, FulAccess</u><br>et, <u>Personalization, FueAccess</u><br>et, <u>Personalization, Personalization, Personal</u> | -       | ·                                     |  |  |  |
| Server:<br>(local)<br>Connection:<br>sa<br>I View connection propertie                          | Cues<br>Databas<br>Databas<br>Vaspn<br>Vaspn<br>Vaspn<br>Vaspn<br>Vaspn<br>Vaspn<br>Vaspn<br>Vaspn<br>Vaspn  | III<br>account enabled for: SC100104ECM100331Stecon<br>a gole membership for: SC100104ECM100331Stecon<br>et <u>Membership FapotingAccess</u><br>et <u>Membership FapotingAccess</u><br>et <u>Membership FapotingAccess</u><br>et <u>Personalization FullAccess</u><br>et <u>Personalization FullAccess</u><br>et <u>Personalization FullAccess</u><br>et <u>Personalization FullAccess</u><br>et <u>Profile BasicAccess</u><br>et <u>Profile BasicAccess</u><br>et <u>Profile BasicAccess</u><br>et <u>Profile BasicAccess</u><br>et <u>Profile FabicAccess</u><br>et <u>Roles BasicAccess</u><br>et <u>Roles FullAccess</u>  | -       | ·                                     |  |  |  |
| Server:<br>Gocal)<br>Connection:<br>aa<br>펠 View connection propertie<br>rogress                | Gues<br>Databas<br>Databas<br>V aspn<br>V aspn<br>aspn<br>aspn<br>V aspn<br>V aspn<br>V aspn<br>V aspn<br>V aspn<br>V aspn<br>V aspn<br>V aspn   | III<br>account enabled for: SC100104ECM100331Sitecon<br>a role membership for: SC100104ECM100331Sitecon<br>et, <u>Membership ReportingAccess</u><br>et, <u>Membership ReportingAccess</u><br>et, <u>Personalization FluAccess</u><br>et, <u>Personalization FluAccess</u><br>et, <u>Personalization FluAccess</u><br>et, <u>Profile Jack-Access</u><br>et, <u>Profile Jack-Access</u>   | -       | ·                                     |  |  |  |
| Server:<br>(ocal)<br>Connection:<br>sa<br>View connection propertie<br>Progress                 | Gues<br>Databas<br>Databas<br>V aspn<br>V aspn<br>aspn<br>aspn<br>V aspn<br>V aspn<br>V aspn<br>V aspn<br>V aspn<br>V aspn<br>V aspn<br>V aspn   | III<br>account enabled for: SC100104ECM100331Stecon<br>a gole membership for: SC100104ECM100331Stecon<br>et <u>Membership FapotingAccess</u><br>et <u>Membership FapotingAccess</u><br>et <u>Membership FapotingAccess</u><br>et <u>Personalization FullAccess</u><br>et <u>Personalization FullAccess</u><br>et <u>Personalization FullAccess</u><br>et <u>Personalization FullAccess</u><br>et <u>Profile BasicAccess</u><br>et <u>Profile BasicAccess</u><br>et <u>Profile BasicAccess</u><br>et <u>Profile BasicAccess</u><br>et <u>Profile FabicAccess</u><br>et <u>Roles BasicAccess</u><br>et <u>Roles FullAccess</u>  | -       | ·                                     |  |  |  |
| Server:<br>(local)<br>Connection:<br>sa<br>I <u>View connection propertie</u><br><b>rogress</b> | Gues<br>Databas<br>Databas<br>V aspn<br>V aspn<br>aspn<br>aspn<br>V aspn<br>V aspn<br>V aspn<br>V aspn<br>V aspn<br>V aspn<br>V aspn<br>V aspn   | III<br>account enabled for: SC100104ECM100331Sitecon<br>a role membership for: SC100104ECM100331Sitecon<br>et, <u>Membership ReportingAccess</u><br>et, <u>Membership ReportingAccess</u><br>et, <u>Personalization FluAccess</u><br>et, <u>Personalization FluAccess</u><br>et, <u>Personalization FluAccess</u><br>et, <u>Profile Jack-Access</u><br>et, <u>Profile Jack-Access</u>   | -       | ·                                     |  |  |  |

8. In the **Database role membership for** field, select the following check boxes:

For the Master and the Web databases:

- o db\_datareader
- o db\_datawriter
- o public

For the Analytics database (if you have DMS installed):

- o db\_datareader
- o db\_datawriter
- o public

For the Core database:

- o db\_datareader
- o db\_datawriter
- o public
- aspnet\_Membership\_BasicAccess
- aspnet\_Membership\_FullAccess
- aspnet\_Membership\_ReportingAccess
- aspnet\_Profile\_BasicAccess
- aspnet\_Profile\_FullAccess

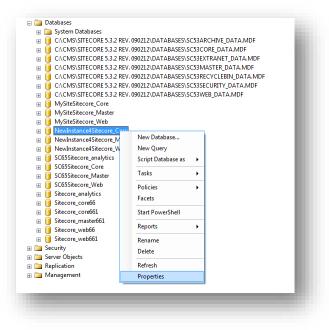


- aspnet\_Profile\_ReportingAccess
- aspnet\_Roles\_BasicAccess
- aspnet\_Roles\_FullAccess
- aspnet\_Roles\_ReportingAccess
- 9. Click OK to create the user.

# 4.4.2 Granting Execute Rights to Stored Procedures

To grant execute rights to stored procedures:

1. In the SQL Server Management Studio window, expand Databases.





2. Right-click a Sitecore database and the click **Properties** and the **Database Properties** window appears.

| " General<br>" Files                            | Stops - Ditteb             |          |                 |              |            |      |      |
|---|----------------------------|----------|-----------------|--------------|------------|------|------|
| Piero<br>Pilegroups<br>Options<br>Pierossisters | Yes an or permitted        |          | ALEXIVGUE/PRESS |              |            |      |      |
| Extended Properties                             |                            |          |                 |              |            |      | LYDA |
| - run meet advance                              |                            |          |                 |              |            |      |      |
|   | Name                       |          |                 |              |            |      |      |
|   | A SC user                  |          |                 | Type<br>User |            |      |      |
|   | A str                      |          |                 |              | Un         |      |      |
|   | A shecke                   |          |                 |              | Ua         |      |      |
|   | A test, user               |          |                 |              | Ue         |      |      |
|   |                            |          |                 |              |            |      |      |
|   | 4                          |          |                 |              |            |      | х    |
|   | Effective Pe               | missions |                 |              | 644        | Ben  | 04e  |
| provention                                      | Explicit permissions for S | Cuter:   |                 |              |            |      |      |
| lever   | Permission                 | Granter  |                 | Grant        | With Grant | Derg |      |
| LEX/SQLE/PRESS                                  | Create XML schema          | dbo      |                 |              |            |      |      |
| Connection                                      | Delete                     | do       |                 |              |            |      |      |
| 8   | Execute                    | do       |                 |              |            |      |      |
| SV Ven comention properties                     | Incel                      | dbo      |                 |              |            |      |      |
|   | References                 | dbo      |                 |              |            |      |      |
| 102111  | Select                     | dbo      |                 |              |            |      |      |
| O Ready   | Show plan                  | do       |                 |              |            |      |      |
|   | Subscribe query notifi     | do       |                 |              |            |      |      |
|   | Take ownenhip              | dbo      |                 |              | 0          |      | M    |
|   |                            |          |                 |              |            |      | -    |
|   |                            |          |                 |              | OK.        | Care | *    |
|   |                            |          |                 |              |            |      | _    |

- 3. In the **Database Properties** window, select the **Permissions** section and select the user that you want to grant rights to.
- 4. In the **Users or roles** field, select the user and in the **Explicit permissions for** field, in the **Grant** column, give the user *Execute* permission.

Repeat this procedure for the other Sitecore CMS databases, including the Analytics database if you have Sitecore DMS installed.



# 4.5 Oracle Database Storage Setup

This section describes how to set up Oracle database storage for Sitecore CMS.

# 4.5.1 Oracle Storage Setup

This section describes setting up a Sitecore CMS with Oracle databases in detail.

### **Database Server Preparations**

Database server must run a supported version of Oracle database instance, which meets the following requirements:

- 1. Oracle instance must be configured in shared server mode.
- Oracle instance must contain a tablespace for Sitecore having at least 200MB of free space initially. More space will be needed as Sitecore database grows. Perform these steps on the Oracle Database Server (or a workstation PC with the administration tools for the Oracle) to set up Oracle databases for Sitecore CMS:
- 3. Install Sitecore CMS Databases (\*DB.exe setup executable, version 6.0.2 or higher). Alternatively you can copy the */Databases/Oracle* folder from an existing Sitecore 6 installation.
- 4. Load Sitecore data into the Oracle database:
  - a. In the computer's System Properties/Advanced/Environment Variables set up user-level variables as follows:
    DATABASE = The name of the Oracle Database instance that will host Sitecore data (as set up on the PC).
    TBS = Name of the tablespace for Sitecore data
    PASSWORD = password for the system user of the Oracle instance.
    PREFIX = Prefix to use for user schema names and passwords (default: sc).
  - b. Launch the createdata.bat file from the /Databases/Oracle/ folder.
  - c. Remove DATABASE, TBS, PASSWORD, PREFIX variables from the environment.

Installation scripts will set up three user schemas: %PREFIX%core, %PREFIX%master, %PREFIX%web (default: sccore, scmaster, scweb). User passwords are the same as the user names.

### Website Server Setup Instructions

The following instructions describe a web server setup where Sitecore CMS file system will be hosted.

1. Install Oracle Client matching the Oracle Database version. Make sure Oracle Data Provider for .NET 2.0 is installed. Add a connection to the appropriate Oracle instance (created as described in the Database Server Preparations section). For detailed instructions on this topic, refer to *Section* Error! Reference source not found., Error! Reference source not found.

### Note

When installing Oracle Data Provider in a 64-bit Environment, make sure you use Oracle Client for Windows x64.

 Install Sitecore CMS 6. If you are installing Sitecore from a ZIP archive (not an exe setup executable) you should configure the dataFolder setting and put a valid license.xml file into the data folder before proceeding to next steps.



3. Copy dataFolder variable definition from Web.config to Web.config.Oracle.

For example <sc.variable name="dataFolder" value="c:\sitecore\data"/>

- 4. In the Web.config.Oracle, in **runtime/assemblyBinding** section set **bindingRedirect** to the Oracle.DataAccess assembly version installed on your system:
  - a. Open Global Assembly Cache by running the 'assembly' command in the command prompt of the Run console (Win+R).
  - b. Locate Oracle.DataAccess.dll for your Oracle Client version, right-click, choose **Properties** and copy the Version value which can be in one of the following formats:
    - i. 10.2.x.x (Oracle Client versions prior to 10.2.0.2).
    - ii. 2.102.x.x or 2.111.x.x (Oracle Client versions 10.2.0.2 and higher).
  - c. Modify the assemblyBinding setting. Replace 10.2.0.100 with your assembly version:

```
<dependentAssembly>
   <assemblyIdentity name="Oracle.DataAccess"
ublicKeyToken="89b483f429c47342"/>
   <bindingRedirect oldVersion="9.2.0.401"
newVersion="10.2.0.100"/>
</dependentAssembly>
```

- 5. Backup the original Web.config and rename Web.config.Oracle to Web.config.
- 6. Modify connection strings in /App\_Config/ConnectionStringsOracle.config to point to the valid Oracle instance.
  - a. Data Source parameter must point to the local Oracle instance name as configured in the Oracle Net Manager.
  - User names and passwords must be adjusted to match those installed on the database server. Default names/passwords are sccore/sccore, scmaster/scmaster and scweb/scweb.

Configure IIS as for a usual Sitecore installation and run Sitecore.



# 4.6 Uninstalling Sitecore (ZIP installation)

Before uninstalling Sitecore, delete the IIS Web site or update it to reference a different directory, or stop IIS by executing the following command:

net stop w3svc.

Stop the SQL Server process:

- for SQL Server Express: net stop "sql server (sqlexpress)"
- for every other edition of SQL Server: net stop "sql server (instancename)"

Remove the Sitecore file system.

Remove any databases on remote or local servers that are used by this instance of Sitecore.



# **Chapter 5**

# **Limitations and Specific Requirements**

This chapter describes various limitations and environment-specific requirements.

This chapter contains the following sections:

- Maximum Number of Worker Processes
- Miscellaneous



# 5.1 Maximum Number of Worker Processes

Sitecore does not support configuration when the **Maximum number of worker processes** is set to two or higher. You must set this setting to "1".

On multiple processor servers, this value may automatically be set higher than "1" when you install the OS/IIS. On these servers, it is therefore especially important to check this setting as it will likely be higher than "1".



# 5.2 Miscellaneous

This section contains miscellaneous uncategorized requirements.

# 5.2.1 Install Latest Updates

Visit Windows Update — <u>http://windowsupdate.microsoft.com</u> — and install all the appropriate service packs and security updates on all of your Sitecore CMS host and client computers.

# 5.2.2 UNC Share Not Supported

Sitecore CMS must be installed on a local drive, not a UNC share.

# 5.2.3 Sitecore Cannot Operate from a Virtual Directory

Do not create a virtual directory for Sitecore, as the product cannot operate from a virtual directory.

# 5.2.4 Install IIS Before Updating .NET Framework

To reduce the number of ASP.NET configuration issues on Sitecore hosts, install IIS before installing or updating the .NET framework.

If you have installed or updated .NET framework before installing the IIS, refer to the following article that contains instructions about troubleshooting an ASP.NET installation:

http://www.microsoft.com/technet/prodtechnol/WindowsServer2003/Library/IIS/187d0e2c-8e89-49ada89d-e26e4d76ee68.mspx?mfr=true



# **Chapter 6**

# **Post-Installation Steps**

This chapter describes the steps that we recommend you to take after installing Sitecore CMS.

This chapter contains the following sections:

- Content Expiration
- Windows Authentication for Sitecore
- Setting Microsoft SQL Server Database Properties
- Rebuild the Search Index and the Link Database
- Cache Configuration



# 6.1 Content Expiration

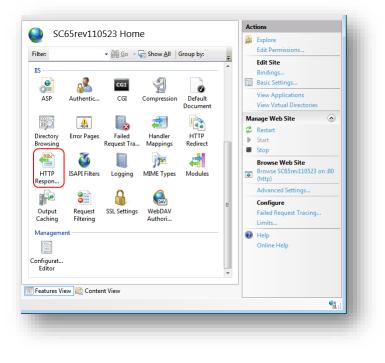
Set IIS Expire Web content header to improve performance.

The Expire Web content header (located in common HTTP Response headers) is how IIS determines whether or not to return a new version of the requested web page if the request is made after the web page content has expired. IIS will mark each web page before it's sent using the settings you provide for content expiration. The browser of the website visitor will translate the expiration mark.

By setting Expire Web content to something other than immediately, you can reduce second-access load times by 50 to 70 percent. This setting will not affect dynamically generated content.

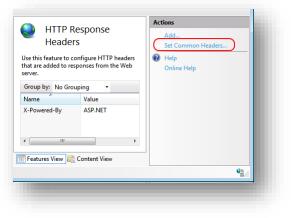
To enable the Expire Web content header in IIS 7.x and 8.x:

- 1. Launch IIS Manager.
- 2. Navigate to the site that you wish to enable the Expire Web content header.
- 3. In the **IIS** section, double click on the **HTTP Response Headers**.

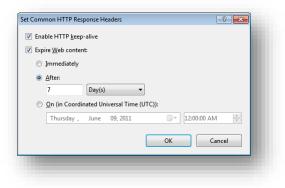




4. In the Actions panel, click on Set common headers...



- 5. Select the **Expire Web content** check box.
- 6. Select the After check box and set the number of days to its default (7).



7. Click **OK** when finished.



# 6.2 Windows Authentication for Sitecore

You can configure Sitecore to use Windows Authentication for SQL connection (SQL 2008 / Windows 2008 (R2)) and effectively remove the username and password from the connectionStrings.config file.

- 1. Find the application pool that your Sitecore is running under. Open Properties and set the identity to the domain user on the corresponding tab.
- 2. On the SQL Server box, register the domain user and grant security permissions on Sitecore databases for the domain user according to the section "4.4.1 Creating a Database Account for Sitecore CMS Databases on SQL Server 2008" of the Installation Guide.
- 3. On the machine that hosts Sitecore, add this domain user to the IIS\_IUSRS group.
- Adjust the permissions for the IIS\_IUSRS group according to these sections of the Installation Guide":
  - o "4.2.2 File System Permissions for ASP.NET Requests"
  - o "4.2.3 File System Permissions for System Folders".
- 5. Edit the /App\_Config/ConnectionStrings.config file and replace the user id and password parameters with the trusted connection=yes option:

- 6. Prepare your identity so it can be used as a service account with "aspnet\_regiis.exe" and the <u>-ga</u> <u>switch</u>.
- 7. Add your domain service account to the local "Performance Monitor Users" group as per this section: "4.2.5 Windows Registry Permissions"

#### Note

If you use DMS, the same configuration must be repeated for the Analytics database. The connection string for the Analytics database must be follows:

<add name="analytics" connectionString="Data Source=<Data-Source>;Database=Sandbox6 Analytics;Trusted Connection=Yes" />



# 6.3 Setting Microsoft SQL Server Database Properties

There are a few Microsoft SQL Server database properties that, when configured correctly, will help increase performance:

### Compatibility Level

Compatibility Level effects SQL syntax and query parsing, and should have no impact of performance. Setting the Compatibility Level to a value of *SQL Server 2008(100)* will take advantage of new T-SQL features, which are used in many of the scripts / commands.

### Auto Close

When MS SQL Server opens a database, resources are allocated to maintain that state. Memory for locks, buffers, security tokens, etc. are all assigned. These operations take time. The *Auto Close* property defines how these resources are handled. If it is set to *true* or *ON*, then when the last connection is closed these resources are deallocated. If a new connection comes in within a short period of time (1/10th of second or quicker), then all of those resources need to be activated again. Setting the *Auto Close* property to *false* or *OFF* will prevent this from happening.

### Auto Shrink

The Auto Shrink property uses a lot of resources when it's called, and you have no control over when it is being called. If you combine *Auto Shrink* with *Auto Growth*, you can get into a spiral of constantly growing and shrink the database, taking valuable resources away from other database tasks as well as causing fragmentation issues. If a database or file requires a SHRINK command, it should be done so via a script, command or scheduled Maintenance Plan. Setting the *Auto Shrink* property to *false* or *OFF* will disable this feature.

### Recovery Model

In Simple Recovery Model MS SQL Server logs minimal amount of information in the transaction log. MS SQL Server basically truncates the transaction log whenever the transaction log becomes 70 percent full or the active portion of the transaction log exceeds the size that MS SQL Server could recover in the amount of time which is specified in the Recovery Interval server level configuration. Setting Recovery Model to Simple has the lowest amount of overhead over Full and Bulk-logged, which is crucial to the performance requirements needed for the Sitecore CMS databases.

To set these properties:

- 1. Launch MS SQL Server Management Studio.
- 2. In the object explorer, right click on the CMS Master database and select Properties.



3. Select the **Options** page and set the parameters as it is presented on the following image:

| Permissions       Compatibility (evel:       SQL Server: 2008 (100)         Other options:   | neral                    | 🔄 Script 🔻 🛐 Help    |                              |   |
|--|--------------------------|----------------------|------------------------------|---|
| Change Tracking       Permissions            Permissions        Compatibility (evel: SQL Server 2008 (100)             Qther options:           Qther options:              Qther options  | groups                   | Collation:           | SQL_Latin1_General_CP1_CI_AS | • |
| Compatibility level:       SQL Server 2008 (100)         Other options:       Compatibility level:         Charles Compatibility level:       SQL Server 2008 (100)         Other options:       Compatibility level:         Charles Compatibility level:       SQL Server 2008 (100)         Other options:       Compatibility level:         Charles Contaction       Auto Close         Auto Close       True         Auto Shrink       False         Auto Update Statistics       True         Auto Update Statistics Approximation       True         Outscorr       Close Cursor on Commit Enabled       False         Obsection       Mask Lines       False         Server:       AnSI NULL Senabled       False         AnSI Padding Enabled       False       AnSI NULL Senabled         AnSI Padding Enabled       False       Concatenate Null Yields Null         AnSI Warnings Enabled       False       Concatenate Null Yields Null         Mark Connection       Concatenate Null Yields Null       False         Consectiation Dotionation Enabled       False       Concatenate Null Yields Null         Mark Cound-Abott       False       Ansti Numeric Round-Abott   |                          | Recovery model:      | Simple                       | - |
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| Progress Progress ANSI NULL Default  |                          |                      |                              |   |
| Progress ANSI NULL Default ANSI NULL Default   | ew connection properties |                      |                              |   |
| Progress ANSI NULL Default   |                          |                      |                              |   |
|  | 35                       |                      |                              |   |
|  | Ready                    | ANSI NULL Default    |                              |   |
| OK Cancel  |                          |                      |                              |   |
| UN Cancer  |                          |                      | UK                           |   |

- 4. In the Compatibility Level field, select SQL Server 2008(100).
- 5. Set the **Auto Close** property to **false**.
- 6. Set the **Auto Shrink** property to **false**.
- 7. In the Recovery Model field, select Simple
- 8. Click OK.

Repeat these actions for the CMS Core and Web databases.



# 6.4 Rebuild the Search Index and the Link Database

Follow these instructions only if you install Sitecore using the ZIP archive of the Web site root.

You should rebuild the Search Index for the core database and the Quick search index.

### **Rebuilding the Search Indexes**

To rebuild the Search Index, log in to the Sitecore Desktop, click *Control Panel*, and then click *Indexing*. In the *Indexing Manager*, you can choose which database indexes you want to rebuild.

### Rebuilding the Link Database

To rebuild the Link Database, log in to the Sitecore desktop and click *Control Panel, Database, Rebuild the Link Database.* Select all available databases.



# 6.5 Cache Configuration

When Sitecore CMS is installed, optimize caching to improve solution performance, reduce server load, and increase system capacity.

For more information about cache configuration, see Cache Configuration Reference on SDN.



# Chapter 7 Appendix

This chapter contains the supplementary instructions that help you to configure your environment.

This chapter contains the following sections:

- Server Configuration •
- Creating a Web Project in Visual Studio ٠



# 7.1 Server Configuration

The following sections contain miscellaneous information and techniques concerning the server configuration.

# 7.1.1 Updating the Security Settings for a Folder

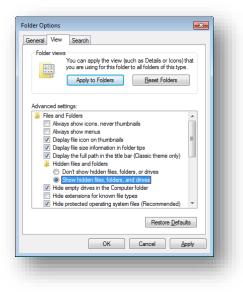
To update the security settings for a folder:

- 1. In Windows Explorer, right-click the folder and select Properties.
- 2. In the **Properties** dialog box, click the **Security** tab.
- 3. In the **Group or user names** field, select a user or group and grant them the appropriate permissions in the **Permissions for** field.
- 4. In the **Security** tab, click **Advanced**.
- 5. In the **Advanced Security Settings** dialog box, select the **Replace permission entries** checkboxes.

### Making the Security Tab Visible

If the **Security** tab is not visible, — this can occur after upgrading from Windows XP Home to Professional:

- 1. In Windows Explorer, click Organize, Folder and search options.
- 2. In the **Folder Options** dialog box, click the **View** tab.



3. Ensure that the **Use simple file sharing** check box is not selected.

If an account is not visible in the **Security** tab, you must make it visible.

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### Making an Account Visible

To make an account visible in the Security tab:

- 1. In the **Properties** dialog box, click the **Security** tab.
- 2. In the **Security** tab, click **Add**.
- 3. In the **Select Users, Computers, or Groups** dialog box, in the **From this location** field, ensure that the local computer is selected.
- 4. In the **Enter the object names to select** field, enter the name of the account, and click Check Names.

Alternatively, you can click **Advanced** and then click **Find Now** and select the account you want to add.



# 7.2 Creating a Web Project in Visual Studio

Sitecore supports the Visual Studio Web Application project model for Sitecore solutions.

#### Important

Create a Visual Studio solution and at least one project for each Sitecore solution that uses Visual Studio. Follow the steps outlined below as a single sequence once for each new Sitecore solution, then add new projects to the existing solution as appropriate.

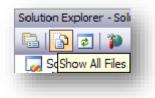
To create a Visual Studio Web Application project for an existing Sitecore solution:

- 1. In Visual Studio, click the **File** menu, then click **New**, and then click **Project**. The new project dialog appears.
- 2. In the new project dialog, in the **Project Types** tree, expand **Visual C#**, and then click **Web**.
- 3. In the new project dialog, in the Templates list, click ASP.NET Web Application.
- 4. In the new project dialog, select the version of the .NET Framework. While installing Sitecore CMS, in the **IIS Website** step you selected the version of the .NET Framework: 4.5.
  - Select .NET Framework 4 in the Visual Studio project.
- 5. In the new project dialog, in the **Name** field, enter the name of the project, for example MyWebSite. Visual studio will use this name as the default .NET namespace and assembly name.
- 6. In the new project dialog, in the Location field, enter the document root of the Sitecore solution, for example C:\inetpub\sitecore\MyWebSite\WebSite.
- 7. In the new project dialog, in the **Solution Name** field, enter the name of the solution, which is typically the name of the project, for example MyWebSite.
- 8. Select the Create directory for solution check box.
- 9. Click **OK**. Visual Studio creates the project in a subdirectory of the directory specified by **Location**, and then opens that project.
- 10. In Solution Explorer, right-click References and click Add Reference.
- 11. Click the Browse tab and select the Sitecore.Kernel.dll file, and then click OK.
- 12. In Solution Explorer, select the Sitecore.Kernel.dll file and set the Copy Local property to false.

To edit files in Visual Studio, you must make them visible and include them in the project.

To make the files visible:

13. In the Solution Explorer, click Show All Files.



14. You must now include the files you want to edit. For example, right-click the XSL folder and click *Include in Project.* 

Sitecore CMS 7.2 Installation Guide



15. Finally, double click the files themselves to edit them.